

CLAIMS

1. A personal telecommunication device (100) for use as a mobile station of a digital cellular radio network, comprising:
- a keypad (105, 221) for allowing a human user to input information to the personal telecommunication device (100) and
 - a display (103, 233) for displaying information to a human user of the personal telecommunication device (100),
- characterized in that**
- the personal telecommunication device (100) comprises two mechanically separate structural parts, of which a first part is a keypad part (102, 202, 302, 402, 502, 602, 702) that comprises the keypad (105, 221), and a second part is an amulet (101, 201, 301, 401, 501, 601, 701, 801, 1201) that comprises the display (103, 233),
 - the personal telecommunication device (100) comprises a short distance communication link (106, 222, 231, 322, 331, 722, 731) between said keypad part and said amulet,
 - said amulet (101, 201, 301, 401, 501, 601, 701, 801, 1201) comprises a hanging arrangement (104) by the help of which said amulet is adapted to be worn on the torso of a human user, and
 - said amulet comprises a microphone (413) and an electroacoustic transducer (412)
- for setting up an audio interface between the personal telecommunication device (100) and a human user.
2. A personal telecommunication device according to claim 1, **characterized in that** said keypad part (202, 302, 402, 502) comprises a main processor (218, 518) adapted to control the operation of the personal telecommunication device (100), as well as a radio transceiver (212) coupled to said main processor (218, 518) for arranging bidirectional radio communication between the personal telecommunication device (100) and a digital cellular radio network.
3. A personal telecommunication device according to claim 2, **characterized in that** the short distance communication link between said keypad part and said amulet is a unidirectional link (222, 231) from said keypad part to said amulet.
4. A personal telecommunication device according to claim 2, **characterized in that** said amulet comprises input means (338, 413), and the short distance communication link between said keypad part and said amulet is a bidirectional link (322, 331) adapted to convey input information from said input means (338, 413) in said amulet to said main processor (218, 518) in said keypad part.

5 5. A personal telecommunication device according to claim 2, **characterized** in that said keypad part (202, 302) comprises a microphone (217) and an electroacoustic transducer (215) for setting up an audio interface between the personal telecommunication device (100) and a human user.

10 6. A personal telecommunication device according to claim 1, **characterized** in that in addition to said microphone (413) said amulet comprises other input means (338) that comprise at least one pressable key (821, 822, 823, 824, 825, 826, 827).

7. A personal telecommunication device according to claim 1, **characterized** in that in addition to said microphone (413) said amulet comprises other input means (338) that comprise a touch screen integrated with said display (103, 233).

15 8. A personal telecommunication device according to claim 1, **characterized** in that said amulet comprises a power switch for switching an operating power on and off.

20 9. A personal telecommunication device according to claim 1, **characterized** in that said amulet (501, 601, 1201) comprises a main processor (532, 632, 1202) adapted to control the operation of the personal telecommunication device (100), and said keypad part comprises a radio transceiver coupled to said main processor through a bidirectional short distance communication link between said keypad part and said amulet for arranging bidirectional radio communication between the personal telecommunication device and the digital cellular radio network.

30 10. A personal telecommunication device according to claim 1, **characterized** in that said amulet (701) comprises a main processor (632) adapted to control the operation of the personal telecommunication device (100), as well as a radio transceiver (212) coupled to said main processor (632) for arranging bidirectional radio communication between the personal telecommunication device (100) and a digital cellular radio network.

35 11. A personal telecommunication device according to claim 10, **characterized** in that the short distance communication link between said keypad part and said amulet is a unidirectional link (722, 731) from said keypad part (702) to said amulet (701).

12. A personal telecommunication device according to claim 1, **characterized** in that it comprises
- a third mechanically separate structural part (1001), which is a display part and comprises a display that is larger than the display (233) in said amulet, and
 - 5 - a short distance communication link (1005, 1006) between said display part (1001) and the other parts (101, 102) of the personal telecommunication device.
13. A personal telecommunication device according to claim 1, **characterized** in that
- 10 - said keypad part is a mobile station of a cellular radio network and as such functionally completely independent of said amulet,
 - said mobile station comprises a general purpose short distance transceiver for setting up and maintaining short distance communication connections with other devices, and
 - 15 - said mobile station is adapted to transmit a copy of certain information destined to a display in said mobile station to said amulet through said general purpose short distance transceiver.
14. A personal telecommunication device according to claim 1, **characterized** in that said amulet is adapted to communicate with other devices than said keypad part.
- 20
15. A personal telecommunication device according to claim 14, **characterized** in that said amulet comprises a connector for connecting it into a receptive socket in another device.
- 25
16. A personal telecommunication device according to claim 1, **characterized** in that said amulet is mechanically incompatible with said keypad part.
17. An amulet part (101, 201, 301, 401, 501, 601, 701, 801, 1201) for a personal telecommunication device, **characterized** in that it comprises:
- a display (233) for displaying information to a human user of the personal telecommunication device,
 - short distance receiving means (231, 331, 1203, 1204) for receiving information to be presented in said display from another part of the personal telecommunication device and
 - 35 - a hanging arrangement (104) by the help of which the amulet part is adapted to be worn on the torso of a human user.

18. An amulet part according to claim 17, **characterized** in that said hanging arrangement (104) comprises a string (802) the two ends of which are attached to a body of the amulet part so that the string constitutes a loop.

5

19. An amulet part according to claim 18, **characterized** in that it comprises an electroacoustic transducer (803, 804) at the end of a cord (805, 806) extending from said body of the amulet part, a certain length of which cord is attached to said string (802).

10

20. An amulet part according to claim 19, **characterized** in that it comprises two electroacoustic transducers (803, 804), each of them being located at the end of a cord (805, 806) extending from said body of the amulet part, so that a certain length of each cord is attached to said string (802) and between said certain length and the transducer at the end of the cord each cord hangs free from attachments to said string.

15

21. An amulet part according to claim 17, **characterized** in that it comprises a broadcast receiver (1205) for receiving radio broadcasts.

20

22. An amulet part according to claim 17, **characterized** in that it comprises memory means (520, 619) for storing graphical information that is adapted to be shown on said display as a logo.